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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. | 4015-5161 | First Inventor or Application Identifier | Cairns, et al. | Cairns |

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Express Mail Label No. | EV 368752457 US

68752457 US

Se	APPLICATION ELEMENTS see MPEP chapter 600 concerning utility patent application contents.	i	Mail Stop Paten ADDRESS TO: Commissioner 1 P.O. Box 1450 Alexandria, VA	or Patents		
1. 2	(Submit an original and a duplicate for fee processing) Specification [Total Pages 44]		Microfiche Computer Program (A lucleotide and/or Amino Acid Sequer if applicable, all necessary)			
	 (preferred arrangement set forth below) — Descriptive title to the Invention — Cross References to Related Applications — Statement Regarding Fed sponsored R & D 	a b c.	. Paper Copy (identical to co			
	Reference to Microfiche Appendix Background of the Invention	8.	ACCOMPANYING APPLICAT Assignment Papers (cover sheet			
4. 2 a.	— Background of the Invention — Brief Summary of the Invention — Brief Description of the Drawings (if filed) — Detailed Description — Claim(s) — Abstract of the Disclosure Drawing(s) (35 U.S.C. 113) [Total Sheets 5] 4. ○ Oath or Declaration [Total Pages 4] a. ○ Newly executed (original or copy) b. ○ Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below] i. ○ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).		37 C.F.R. § 3.73(b) Statement (when there is an assignee) English Translation Document (ii) Information Disclosure Statement (IDS)/PTO-1449 Preliminary Amendment Return Receipt Postcard (MPEP (Should be specifically itemized) *Small Entity Statemen	Power of Attorney applicable) Copies of IDS Citations 503) t filed in prior application, proper and desired ent(s) tion ER TO BE FEES, A SMALL O (37 C.F.R. A PRIOR		
17. If	reference therein. a CONTINUING APPLICATION, check appropriate box and sup	pply the re	equisite information below and in a p	reliminary statement:		
	Continuation Divisional Continuation-in Prior application information: Examiner:	n-part (CIF	P) of prior application No: Group/Art Unit:_	/		
	18. CORRESPONDENCE ADDRESS					
☐ Customer Number or Bar Code Label 24112 or ☐ Correspondence address below						
NAME						
ADDR	ESS					
CITY		STATE	ZIP CODE	Τ		
COUN		PHONE	FAX			
Name (Print/Type) Michael D. Murphy		Registration No. (Attorney/Agent)	44,958		
Signatu			Date	March 12, 2004		

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are require	Patent and d to respond to a collection of	Approved for use through 9/30/2000. OMB 0651-0032 Trademark Office: U.S. DEPARTMENT OF COMMERCE information unless it displays a valid OMB control number.
		Complete if Known
Patent fees are subject to annual revision on October 1	Application Number	TBA
These are the fees effective December 29, 1999.	Filing Date	
Entity payments must be supported by a small entity statement.	First Named Inventor	Douglas A. Cairns
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.	Examiner Name	TBA
See 37 C.F.R. §§ 1.27 and 1.28.	Group Art Unit	ТВА
TOTAL AMOUNT OF PAYMENT (\$)1,644.00	Attorney Docket No.	4015-5161

	METH	OD OF	PAYMENT (check one)			F	EE CAL	CULATION (continued)	
The Commission is hereby authorized to charge indicated fees and credit any over payments to:		3. Large Fee	Entity Fee	TONAL Small Fee	Entity Fee	Fee Description) Paid		
Deposit Account	18-1167			Code	(\$)	Code	(\$)	0 1 1 1 1 1 1 1	
Number				105 127	130 50	205 227	65 25	Surcharge - late filing fee or oath Surcharge - late provisional filing fee	
Deposit				'-"	30	221	20	or cover sheet	
Account	Coats &	Bennett, I	P.L.L.C.	139	130	139	130	Non-English specification	
Name				147	2,520	147	2,520	For filing a request for reexamination	
				112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
Fee Required			Charge the Issue Fee Set in 37 CFR §1.18 at the Mailing of the	113	1,840*	113	1,840*	Requesting publication of SIR after Examination action	
	§§1.16 and	1.17	Notice of Allowance	115	110	215	55	Extension for reply within first month	
2. 🛛 Pa	ayment End	losed:		116	380	216	190	Extension for reply within second month	
⊠ c	heck [7	Money Order Other	117	870	217	435	Extension for reply within third month	
		FFF (CALCULATION	118 128	1,360 1,850	218 228	680 925	Extension for reply within fourth month Extension for reply within fifth month	-
1. BASIC	EII ING EI		JALOGEA HOR	119	300	219	150	Notice of Appeal	+
Large Enti				120	300	220	150	Filing a brief in support of an appeal	
Fee Fee	•	Fee	Fee Description Fee Paid	121	260	221	130	Request for oral hearing	
Code (\$)	Code	(\$)		138	1,510	138	1,510	Petition to institute a public use proceeding	
101 77		345	, ,	140	110	240	55	Petition to revive - unavoidable	
106 31		155	ÿ ÿ .	141 142	1,210 1,210	241 242	605 605	Petition to revive - unintentional	—
107 48 108 76		240 380		143	430	242	215	Utility issue fee (or reissue)	——
114 15		75		144	580	243		Design issue fee	
''' '	214	,,	, <u> </u>				290	Plant issue fee	——
			SUBTOTAL (1) (\$)770.00	122	130	122	130	Petitions to the Commissioner	
2. EXTRA	CLAIM F	FFS		123	50	123	50	Petitions related to provisional applications	<u></u>
L. EXIIIA	OLAIII I	LLV	Fee from	126	240	126	240	Submission of Information Disclosure Stmt.	
		1	Extra Claims below Fee Paid	581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
Total Claims Independent	59 5	-20** -3**		146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))	
Claims		-		149	760	249	380	For each additional invention to be	
Multiple Depe			X=					examined (37 CFR 1.129(b))	
Large Entit	previousiy p ty Small	Entity	eater; For Reissues, see below						
Fee Fee	Fee	Fee	Fee Description	Other fe	e (specify)	ı			
Code (\$)	Code	(\$)			•				
103 18	203	9	Claims in excess of 20	Other fe	e (specify)	I.			
102 78	202	39	Independent claims in excess of 3		· · · · · · · · · · · · · · · · · · ·				
104 260	204	130	Multiple dependent claim						
109 78	209	39	**Reissue independent claims						
over original patent			*Reduce	ed by Basic	: Filina F	ee Paid	SUBTOTAL (3) (\$)-	40.00	
110 18	210	9	**Relssue claims in excess of 20	1	U, Daoi	g ·	JU I UIU	(a) (b)	10.00
	-		and over original patent						
			SUBTOTAL (2) (\$)874.00						
L			35-15-15-15-15-15-15-15-15-15-15-15-15-15						

SUBMITTED BY			Complete (if applicable)		
Typed or Printed Name	Michael D. Murphy			Reg. Number	44,958
Signature	Mulm	Date	March 12, 2004	Deposit Account User ID	18-1167

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Cairns ., et al.)
Serial No.: Unknown) EXPRESS MAIL CERTIFICATION) LABEL NO.: EV 368752457 US
Filed:) LABEL NO EV 300/9245/ US
Title: METHOD AND APPARATUS FOR)
PARAMETER ESTIMATION IN A GENERALIZED RAKE RECEIVER)
·)
Attorney's Docket No: 4015-5161	Raleigh, North Carolina

MS PATENT APPLICATION COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

Sir:

EXPRESS MAIL CERTIFICATE LABEL NO.: EV 368752457 US DATE MAILED: March 12, 2004

I hereby certify that the enclosed US Utility Patent Application Transmittal Form, Fee Transmittal Form (2 Copies), specification and claims, drawings (1 set of 5 sheets), Declaration and Power of Attorney(unsigned), Information Disclosure Form including all pertinent documents pertaining thereto, and our check number 11442 in the amount of \$1,644.00 are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Respectfully submitted,

COATS & BENNETT, P.L.L.C.

March 12, 2004

By:

Michael D. Murphy Registration No. 42,706

Telephone: (919) 854-1844